CSC 261/461

PHP notes

PHP

PHP is an acronym for "PHP: Hypertext Preprocessor"

PHP is a widely-used, open source scripting language

PHP scripts are executed on the server

PHP is free to download and use

PHP

However, if your server does not support PHP, you must:

- install a web server
- install PHP
- install a database, such as MySQL

PHP

A PHP script can be placed anywhere in the document.

A PHP script starts with <?php and ends with ?>:

```
<?php
  // PHP code goes here
?>
```

The default file extension for PHP files is ".php".

PHP

A comment in PHP code is a line that is not read/executed as part of the program.

```php
<?php
// This is a single-line comment

# This is also a single-line comment

/*
This is a multiple-lines comment block
that spans over multiple
lines
*/
?>
```

PHP

- In PHP, all keywords (e.g. if, else, while, echo, etc.),
- Classes, functions, and user-defined functions are NOT case-sensitive.
- Variable names are case-sensitive.

PHP

```
<?php
$txt = "Hello world!";
$x = 5;
$y = 10.5;
?>
```

- A variable starts with the $ sign, followed by the name of the variable
- A variable name must start with a letter or the underscore character
- A variable name cannot start with a number
- A variable name can only contain alpha-numeric characters and underscores (A-z, 0-9, and _)

PHP

The following example will show how to output text and a variable:

```php
<?php
$txt = "Pizza";
echo "I love $txt!";
echo "Oh yes I love " . $txt . "!";
?>
```

PHP

- An array stores multiple values in one single variable.

- The PHP var_dump() function returns the data type and value:

```php
<?php
$cars = array("Volvo","BMW","Toyota");
var_dump($cars);
?>
```

PHP

The if statement executes some code if one condition is true.

```php
<?php
$t = 11;

if ($t < 20) {
    echo "Have a good day!";
}
if ($t < 20) {
    echo "Have a good day!";
} else {
    echo "Have a good night!";
}
?>
```

PHP

The while loop executes a block of code as long as the specified condition is true.

```php
<?php
$x = 1;

while($x <= 5) {
    echo "The number is: $x <br>";
    $x++;
}
?>
```

PHP

-The for loop is used when you know in advance how many times the script should run.

```php
<?php
for ($x = 0; $x <= 10; $x++) {
    echo "The number is: $x <br>";
}
?>
```

- The `foreach` loop works only on arrays:

```php
$colors = array("red", "green", "blue", "yellow");

foreach ($colors as $value) {
    echo "$value ";
}
```